

PRODUCT DATA SHEET

Product: Anti-DNA Polymerase β mAb, clone 18S

Cat. No.: MC-370 (100 μ g)

Background:

DNA polymerase β has an 8 kDa amino-terminal ssDNA binding domain with deoxyribose phosphodiesterase activity and a 31 kDa carboxy-terminal domain with nucleotidyltransferase activity. Mammalian DNA polymerase β is constitutively expressed in cultured cells, but levels can be up-regulated by treating cells with DNA-alkylating agents (eg. methyl methanesulfonate). DNA polymerase β fills single nucleotide gaps in DNA produced by the base excision repair pathway of mammalian cells.

Specificity:

Monoclonal antibody recognizes the 39 kDa DNA Polymerase β . Shows no effect on the polymerase activity of β -pol.

Positive Control:

HeLa cells.

Cellular Localization:

Nuclear

Epitope:

Not determined

Species Reactivity:

Human, bovine, mouse, rat, hamster, and Xenopus. Others not known.

Ig Isotype:

Mouse IgG₁

Immunogen:

Rat DNA Polymerase β protein

Format:

500 μ L of 200 μ g/mL monoclonal antibody purified from ascites fluid by Protein G chromatography. Prepared in 10 mM PBS, pH 7.4, with protein stabilizer and 0.09% sodium azide.

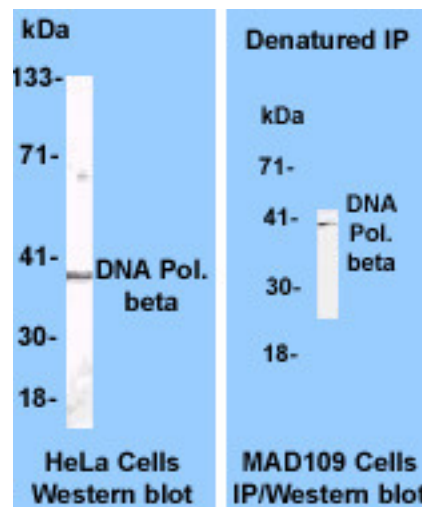
Storage:

Store at 4°C.

Applications and Suggested Dilutions:

- Functional Activity: Effect on Polymerase Activity, Non-inhibitory.
- Western blot: Use 1-2 μ g/mL for 2 hrs. at RT.
- Immunoprecipitation (Denatured verified) Use protein G; Ab at 2 μ g/mg protein lysate.

The optimal dilution for a specific application should be determined by the researcher.



Limitations:

For *in vitro* research use only. Not for use in diagnostics or in humans.

Warranty:

No warranties, expressed or implied, are made regarding the use of this product. KAMIYA BIOMEDICAL COMPANY is not liable for any damage, personal injury, or economic loss caused by this product.